



SolarEdge Single Phase Inverter



The best choice for SolarEdge enabled systems

- Superior efficiency (>97%)
- Small, lightweight and easy to install
- Built-in module-level monitoring receiver
- Communication to internet via broadband
- IP65 – Outdoor and indoor installation
- Excellent reliability with standard 12 year warranty



architects of energy™

Single Phase Inverter

SE4000-POR

All our inverters are part of SolarEdge's innovative system designed to provide superior performance at a competitive price.

The SolarEdge inverter combines a sophisticated, digital control technology and a one stage, ultra-efficient power conversion architecture to achieve superior performance – over 97% efficiency and best-in-class reliability. Our fixed-voltage technology ensures the inverter is always working at its optimal input voltage, regardless of the number of modules or environmental conditions.

A proprietary data monitoring receiver is integrated in the inverter and aggregates SolarEdge PowerBox performance data from each PV module. Multiple inverters can be connected in an RS485 bus or using a wireless Zigbee MESH network. The data from the inverters is transmitted to the web using an Ethernet connection or a wireless link and can be accessed via the SolarEdge Monitoring Portal for performance analysis, fault detection and troubleshooting.

This inverter can be fitted with a seamlessly attachable cabling duct for managing the installation wirings and it is light enough for a single person to install on a supplied bracket.

TECHNICAL DATA

	SE4000-POR	
OUTPUT		
Rated AC Power Output	3680	W
Maximum AC Power Output	3680	W
AC Output Voltage (Nominal)	230	Vac
AC Output Voltage Range	184 - 264.5	Vac
AC Frequency (Nominal)	50	Hz
AC Frequency Range	47.5 - 50.2	Hz
Maximum Continuous Output Current	16	A
Total Harmonic Distortion (THD) at Maximum Power	< 3	%
Power Factor	> 0.99	
Residual Current Detector / Residual Current Step Detector	300 / 30	mA
Maximum DC Injection	130	mA
Utility Monitoring, Islanding Protection, Country Configurable Thresholds	Yes	
INPUT		
Recommended Maximum DC Power (Module STC)	4000	W
Transformer-less, Ungrounded	Yes	
Maximum Input Voltage	500	Vdc
Nominal DC Input Voltage	350	Vdc
Maximum Input Current	15	Adc
Reverse-Polarity Protection	Yes	
Ground-Fault Isolation Detection	600k Ω Sensitivity	
Maximum Inverter Efficiency	97.6	%
European Weighted Efficiency	97.3	%
Nighttime Power Consumption	< 2.5	W
STANDARD COMPLIANCE		
Safety	IEC-62103 (EN50178), Draft IEC-62109, UL1741	
Grid Connection Standards	VDE 0126-1-1, AS-4777, RD-1663, DK 5940, IIEEE1547, NEC	
Emissions	IEC61000-6-2, IEC61000-6-3, IEC61000-3-11, IEC61000-3-12, FCC part15 class B	
WEEE, RoHS	Yes	
INSTALLATION SPECIFICATIONS		
AC Output	Cable Gland - diameter 13-18 mm	
DC Input	MC3 / MC4 / Tyco	
Dimensions (WxLxH)	540x315x191	
Weight	23	
Cooling	Natural Convection	
Operating Temperature Range	-20 - +50	
Protection Rating	IP65 - Outdoor and Indoor	
Bracket Mounted (Bracket Provided), Optional Attachable Cabling Duct (EU), Integral DC Switch (US)		

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